CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

	and	desire to secure by Letters Patent is as follows:
•	1	1. Viable, biologically substantially pure exfoliated
	2	fecal coloroytes isolated at normal ambient
	3	temperature.
	1	2. The colonocytes of claim 1 bearing marker
- 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	indicative of specific gastrointestinal condition.
there there were the state of t	1	3. The colonocytes of claim 2 bearing marker indicative
r man pr	2	of neoplastic transformation.
per may w Arm mod c malf thus w	1	4. The colonocytes of claim 2 bearing marker indicative
usely, every, edit uselli eselli uselli	2	of immune dysfunction.
######################################	1	5. The colonocytes of claim 2 showing abnormality
	2	indicative of non-neoplastic gastrointestinal
Serie april. Serie april. State State	3	pathology.
(C) 32	1	6. The colonocytes of claim 1 being epithelial or
	2	nonepithelial cells of lymphoid origin.
	1	7. The colonocytes of claim 1 expressing a chimeric
•	2	immunoglobulin IgC.
	1	8. The colonocytes of claim 1 expressing only IgA and
	2	CFc.
	1	9. The colonocytes of claim 1 expressing only CFc.
•	1	10.A transport medium for collecting a fecal sample,
	2	comprising:
	3	(a) a sufficient amount of an agent to sequester
101	4	proteases present in fecal matter;

5	(b) a sufficient amount of a mucolytic agent to
6	destroy mucus present in fecal matter; and
7	(c) a sufficient amount of a bacteriogidal agent
8	to inhibit bacterial activity in fecal matter.
1	11. The transport medium of claim 10, wherein said agent
2 :	for sequestering proteases is selected from the group
3	consisting of plasma proteins, gel forming polymers
4	and synthetic resins.
1	12. The transport medium of claim 11. wherein said plasma
2	proteins are bovine serum albumin, egg albumin or
3	human serum albumin.
1	13. The transport medium of claim 12, wherein the
2	mucolytic agent is selected from the group consisting
3	of N-acetyl cysteine b-mercaptoethanol, capsaicin,
4	dithiothreitol and guaiacol.
1	14. The transport medium of claim 13, wherein the
2	bacteriocidal agent is selected from the group
3	consisting of thimerosal, antibiotics and sodium
4	azide.
1	15. The transport medium of claim 14 being a solution,
2	comprising:
3	sodium bicarbonate: 350-500 mg;
4	bovine serum albumin: 2.5-15 gm;
5	N-acetyl cysteine: 250-500 mg;
6	Thimerosal: 100-300 mg; and
7	Puck's Saline G: 500 ml.

1	16.	The transport medium of claim 15 being devoid of
2		thimerosal, thereby transforming into a dispersion
3		or suspension medium.
1	17.	A method for isolating biologically substantially
2		pure exfoliated fecal colonocytes at normal ambient
3		temperature, comprising the steps of:
4		(a) collecting a fecal sample in a transport medium
5		maintained at normal ambient temperature;
6		(b) dispersing the fecal sample in said transport
7		medium diluted with a suspension medium;
8		(c) sedimenting cells present in the diluted
9		transport medium of step (b) to isolate the cells
10		from impurities by layering the cell suspension
11		over a medium of heavier density;
12		(d) subjecting the cells in step (c) to an influence
13		resulting in the formation of a cellular band at
14		a boundary with said heavier medium; then
15		(e) recovering biologically substantially pure
16		colonocytes from said cellular band.
1	18.	The method of claim 17, wherein said heavier
2		medium is of density ranging from about 1.033 to
3	٠.	1.20.
1	19.	The method of claim 18, wherein said heavier
2		medium as of density 1.20.
1	20.	A method for detecting colorectal cancer,
2		comprising the steps of:

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	3	(a) obtai	ning biologically substantially pure
÷	. 4	colonocyte	_
	5	(b) reacti	ng said colonocytes with a reagent to
	6		presence of a marker determinative of
•	7		currence of a positive reaction of said
	. 8		s with said reagent being indicative of
	9		e of carcer.
234 244 244	1	21. The method	of claim 20, wherein said reagent is
Jr. Jrr. Jr. Brrt. Open Yeard	2		ly labelled antibodies or plant lectins
Henry House Heart House Heart House Heart House	3		te a colored product.
gent, gent, constitution into most most most most most of most light them constitution and most most most most most most most most	1	22. A method fo	r determining mucosal immunity of GI
. E	2		rising the step of comparing the number
225	3		procytes recovered from a subject whose
nds that the full date with	4		cosal immunity is to be determined, with
	. 5		of immunocoprocytes recovered from a
	6		oject, a statistically significant
.*	7	deviation fr	rom normal value being indicative of
	8		E immune dysfunction.
	1	3. A method for	diagnosing GI/tract pathology,
	2		the step of determining the presence of
	3		cells in a stool sample of a subject
÷.	4		GI tract pathology, the presence of
	5		cells being indicative of GI tract
	6	pathology.	/A
•	1	4. The method	of claim 23, wherein the presence of
	2		cells is determined by reacting the

3		cells with antibodies to CD45 or COX-2, the
4		cells that bind with said antibodies being
5		inflammatory cells.
1	25.	A method of producing antigen-specific monoclonal
2		antibodies, comprising the step of employing
3		antigen-specific mmunocoprocytes as a clone in a
4		standard hybridoma technique and recovering antigen-
5		specific monoclopal antibodies.

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